#### Safety Data Sheet

MINOVA

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations.

Revision Date: 03/01/2019 Date of Issue: 02/28/2018 Supersedes SDS Date: 02/28/2018 Version 3.0 Revision Impetus: Text and logo format changes.

### **SECTION 1: IDENTIFICATION**

Product Identifier
Product Name: TekCrib
Synonyms: Cement grout
Intended Use of the Product

Cement grout

Name, Address, and Telephone of the Responsible Party

USA: Canada: Minova USA Inc. Minova

150 Summer Court 576 Arvin Avenue

Georgetown, KY 40324 Stoney Creek, ON - Canada L8E 5P1

T 502-863-6800 For SDS Requests:

Call 1-855-266-7422 or email sds.na@orica.com

www.minovaglobal.com

**Emergency Telephone Number** 

Emergency number : For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents IN THE U.S.

T 905-643-1166

or CANADA CALL: CHEMTREC 1-800-424-9300 Minova CCN 14730.

### **SECTION 2: HAZARDS IDENTIFICATION**

### Classification (GHS-US)

Skin Irrit. 2 H315 Skin Sens. 1 H317

Eye Irrit. 2A H319 STOT SE3 H335

**Label Elements** 

GHS-US Labeling Hazard Pictograms (GHS-US)





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H315 – Causes skin irritation.

H317 – May cause an allergic skin reaction.H319 – Causes serious eye irritation.H335 – May cause respiratory irritation.

**Precautionary Statements (GHS-US)**: P261 – Avoid breathing dust.

P264 – Wash hands, forearms, and exposed areas thoroughly after handling.

P280 – Wear protective clothing, protective gloves, eye protection.

P302+P352 – If on skin: Wash with plenty of soap and water.

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

P333+P313 – If skin irritation or rash occurs: Get medical advice/attention. P337+P313 – If eye irritation persists: Get medical advice/attention. P362+P364 – Take off contaminated clothing and wash it before reuse.

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<u>Other Hazards</u> Contains Portland cement or other caustic material which may cause an allergic skin reaction in sensitive individuals. Wet cement can dry the skin and cause chemical burns.

Other Hazards Not Contributing to the Classification: None

<u>Unknown Acute Toxicity (GHS-US)</u> Not available

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Cement, portland, chemicals	(CAS No) 65997-15-1	10 - 30	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			Skin Sens. 1, H317
			STOT SE 3, H335
Calcium sulfate	(CAS No) 7778-18-9	7 - 13	Skin Irrit. 2, H315
			Eye Dam. 1, H318
Cement, alumina, chemicals	(CAS No) 65997-16-2	5 - 10	Eye Irrit. 2A, H319
Calcium hydroxide	(CAS No) 1305-62-0	1 - 5	Skin Irrit. 2, H315
			Eye Dam. 1, H318
			STOT SE 3, H335

A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition. Full text of H-phrases: see section 16.

### **SECTION 4: FIRST AID MEASURES**

### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). **Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Keep at rest and in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Rinse affected area with water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Immediately call a doctor/physician.

**Ingestion:** Rinse mouth. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head positioned between legs to avoid breathing in of vomit, rinse mouth and have victim drink plenty of water. Immediately call a POISON CENTER or doctor/physician. Never give anything by mouth to an unconscious person.

### Most Important Symptoms and Effects Both Acute and Delayed

General: Irritation can be serious and damage eyes, respiratory system and skin. May cause an allergic skin reaction.

**Inhalation:** Causes irritation to the respiratory tract.

**Skin Contact:** Causes skin irritation. Exposure may produce an allergic reaction.

**Eye Contact:** Causes serious eye irritation.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** Repeated and prolonged inhalation may damage lungs.

## Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

### **SECTION 5: FIREFIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Wet cement is alkaline.

#### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. **Firefighting Instructions:** Use water spray or fog for cooling exposed containers. **Protection During Firefighting:** Firefighters should wear full protective gear.

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Hazardous Combustion Products: Oxides of calcium and other metal oxides. As in all fires toxic and noxious fumes.

#### **Reference to Other Sections**

Refer to section 9 for flammability properties.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes or on skin. Do not breathe dust.

For Non-Emergency Personnel

**Protective Equipment:** Use appropriate Personal Protection Equipment (PPE).

Emergency Procedures: Evacuate danger area.

**For Emergency Personnel** 

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: In the event of a spill or leak of material sweep up material. Avoid creating excessive dust and as with all

spills, minimize material from entering water systems.

#### **Environmental Precautions**

Avoid release to the environment.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Avoid generation of dust during clean-up of spills.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely.

**Reference to Other Sections** 

See heading 8, Exposure Controls and Personal Protection.

### **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**Additional Hazards When Processed:** Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Never add material to this product unless instructed by Minova.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

#### Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Store in a dry, cool place.

Incompatible Materials: Acids.

Specific End Use(s)

Cement grout

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

Cement, portland, chemicals	(65997-15-1)	
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m³)	5000 mg/m <sup>3</sup>
Alberta	OEL TWA (mg/m³)	10 mg/m <sup>3</sup>
British Columbia	OEL TWA (mg/m³)	3 mg/m³ (particulate matter containing no Asbestos and <1%
		Crystalline silica)
Manitoba	OEL TWA (mg/m³)	1 mg/m <sup>3</sup>
New Brunswick	OEL TWA (mg/m³)	10 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (total mass)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (total mass)
Ontario	OEL TWA (mg/m³)	1 mg/m³ (containing no Asbestos and <1% Crystalline silica)
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1%
		Crystalline silica)
Québec	VEMP (mg/m³)	5 mg/m³ (containing no Asbestos and <1% Crystalline silica)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³

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Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m <sup>3</sup>
Yukon	OEL TWA (mg/m³)	10 mg/m³
Calcium sulfate (7778-18-9)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
Alberta	OEL TWA (mg/m³)	10 mg/m³
British Columbia	OEL TWA (mg/m³)	10 mg/m³
Manitoba	OEL TWA (mg/m³)	10 mg/m³
New Brunswick	OEL TWA (mg/m³)	10 mg/m³
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³
Ontario	OEL TWA (mg/m³)	10 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³
Québec	VEMP (mg/m³)	5 mg/m³ (containing no Asbestos and <1% Crystalline silica)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Calcium hydroxide (1305-62	-0)	
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
Alberta	OEL TWA (mg/m³)	5 mg/m³
British Columbia	OEL TWA (mg/m³)	5 mg/m³
Manitoba	OEL TWA (mg/m³)	5 mg/m³
New Brunswick	OEL TWA (mg/m³)	5 mg/m³
Newfoundland & Labrador	OEL TWA (mg/m³)	5 mg/m³
Nova Scotia	OEL TWA (mg/m³)	5 mg/m³
Nunavut	OEL STEL (mg/m³)	10 mg/m³
Nunavut	OEL TWA (mg/m³)	5 mg/m³
Northwest Territories	OEL STEL (mg/m³)	10 mg/m³
Northwest Territories	OEL TWA (mg/m³)	5 mg/m³
Ontario	OEL TWA (mg/m³)	5 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	5 mg/m³
Québec	VEMP (mg/m³)	5 mg/m³
Saskatchewan	OEL STEL (mg/m³)	10 mg/m³
Saskatchewan	OEL TWA (mg/m³)	5 mg/m³
Yukon	OEL STEL (mg/m³)	10 mg/m³
Yukon	OEL TWA (mg/m³)	5 mg/m³

### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal Protective Equipment: Gloves. Protective clothing. Safety glasses. Insufficient ventilation: wear respiratory protection.









Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

**Eye Protection:** Safety glasses or chemical goggles as appropriate to prevent eye contact.

Skin and Body Protection: Wear suitable protective clothing.

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Respiratory Protection: Use a NIOSH-approved respirator "dust mask" in dusty conditions or whenever exposure may exceed established Occupational Exposure Limits.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### **Information on Basic Physical and Chemical Properties**

**Physical State** Solid

**Appearance** Grev powder

Odor None

**Odor Threshold** Not applicable

Alkaline when mixed with water

Relative Evaporation Rate (butyl acetate=1) Not applicable **Melting Point** Not applicable **Freezing Point** Not applicable **Boiling Point** Not applicable **Flash Point** Not applicable **Auto-ignition Temperature** Not applicable **Decomposition Temperature** Not applicable Flammability (solid, gas) Not applicable **Lower Flammable Limit** Not applicable **Upper Flammable Limit** Not applicable Vapor Pressure Not applicable Relative Vapor Density at 20 °C Not applicable **Relative Density** Not applicable **Specific Gravity** Not applicable

Solubility Slightly soluble in water

Partition coefficient: n-octanol/water Not applicable Viscosity Not applicable Explosion Data – Sensitivity to Mechanical Impact : Not applicable Explosion Data - Sensitivity to Static Discharge Not applicable

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: Wet cement is alkaline. As such it is incompatible with acids, ammonium salts and phosphorus.

Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

Possibility of Hazardous Reactions: Hazardous reactions will not occur.

Conditions to Avoid: Use of product in extremely high or low temperatures will affect set times.

Incompatible Materials: Acids.

Hazardous Decomposition Products: Oxides of calcium and other metal oxides.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Information on Toxicological Effects - Product**

Acute Toxicity: Not toxic based on mixture ingredients LD50 and LC50 Data: Refer to individual mixture ingredients

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye irritation.

**Respiratory or Skin Sensitization:** May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Teratogenicity: No based on mixture ingredients Carcinogenicity: No based on mixture ingredients

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: No based on mixture ingredients

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Irritation to the respiratory tract.

Symptoms/Injuries After Skin Contact: Causes skin irritation. Exposure may produce an allergic reaction.

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Symptoms/Injuries After Eye Contact: Causes serious eye irritation. May lead to eye damage if not treated.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Repeated and prolonged inhalation may damage lungs.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Calcium sulfate (7778-18-9)	
LD50 Oral Rat	> 3000 mg/kg
Calcium hydroxide (1305-62-0)	

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Toxicity**

Calcium sulfate (7778-18-9)	
LC50 Fish 1	2980 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC 50 Fish 2	> 1970 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

### Persistence and Degradability Not available

### **Bioaccumulative Potential**

Calcium hydroxide (1305-62-0)	
BCF fish 1	(no bioaccumulation)

### Mobility in Soil Not available

### **Other Adverse Effects**

Other Information: Avoid release to the environment.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Recommendations: If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

### **SECTION 14: TRANSPORT INFORMATION**

14.1 In Accordance with DOT
 14.2 In Accordance with IMDG
 14.3 In Accordance with IATA
 14.4 In Accordance with TDG
 Not regulated for transport
 Not regulated for transport

**National Motor Freight Classification** 

NMFC Name: Cement, Hydraulic NMFC Number: 42130 Class: 50

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Tariff Classification Number: 2523.90.0000

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal Regulations**

TekCrib	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Cement, alumina, chemicals (65997-16-2)	
Listed on the United States TSCA (Toxic Substances Conf	trol Act) inventory
Cement, portland, chemicals (65997-15-1)	
Listed on the United States TSCA (Toxic Substances Conf	trol Act) inventory
Calcium sulfate (7778-18-9)	
Listed on the United States TSCA (Toxic Substances Conf	trol Act) inventory
Calcium hydroxide (1305-62-0)	

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### **US State Regulations**

### Cement, portland, chemicals (65997-15-1)

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits Mineral Dusts
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Occupational Exposure Limits Mineral Dusts
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits Mineral Dusts
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

#### Calcium sulfate (7778-18-9)

- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. North Dakota Air Pollutants Guideline Concentrations 8-Hour
- U.S. Oregon Permissible Exposure Limits TWAs
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Tennessee Occupational Exposure Limits TWAs
- U.S. Texas Effects Screening Levels Long Term
- U.S. Texas Effects Screening Levels Short Term
- U.S. Vermont Permissible Exposure Limits TWAs
- U.S. Washington Permissible Exposure Limits STELs
- U.S. Washington Permissible Exposure Limits TWAs

## Calcium hydroxide (1305-62-0)

- U.S. Connecticut Hazardous Air Pollutants HLVs (30 min)
- U.S. Connecticut Hazardous Air Pollutants HLVs (8 hr)
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Emission Levels (ELs)
- U.S. Idaho Occupational Exposure Limits TWAs
- U.S. Massachusetts Right To Know List
- U.S. Michigan Occupational Exposure Limits TWAs
- U.S. Minnesota Hazardous Substance List
- U.S. Minnesota Permissible Exposure Limits TWAs
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) 24-Hour
- U.S. New Hampshire Regulated Toxic Air Pollutants Ambient Air Levels (AALs) Annual

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U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour

U.S. - Oregon - Permissible Exposure Limits - TWAs

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Tennessee - Occupational Exposure Limits - TWAs

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term

U.S. - Vermont - Permissible Exposure Limits - TWAs

U.S. - Washington - Permissible Exposure Limits - STELs

U.S. - Washington - Permissible Exposure Limits - TWAs

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less Than 40 Feet

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less Than 75 Feet

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater

U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

### Canadian Regulations

canadian negalations		
TekCrib		
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects	
	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
	1 (50000 45 0)	

#### Cement, alumina, chemicals (65997-16-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### Cement, portland, chemicals (65997-15-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class E - Corrosive Material

### Calcium sulfate (7778-18-9)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

#### Calcium hydroxide (1305-62-0)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Listed on the Canadian Ingredient Disclosure List

WHMIS Classification Class E - Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

#### **SECTION 16: OTHER INFORMATION**

**Revision date** : 03/01/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200 and the Hazardous Products Regulations

(WHMIS 2015).

#### **GHS Full Text Phrases:**

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation

### Safety Data Sheet

H335	May cause respiratory irritation

### Party Responsible for the Preparation of This Document

Minova USA Inc. SHES Department Phone Number: 1-502-863-6800

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North America GHS US 2012 & WHMIS